

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	728079	"2" and (copper or (copper adj to adj copper) near2 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 19:51
L3	2345	((trench\$2 or channel\$1 or cavit\$2 or void\$1) near3 (substrate\$1 or wafer\$1)) same (bond\$3 or attach\$4 combin\$3)) and (copper or (copper adj to adj copper) near2 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 20:01
L4	2420	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near10 ((catalyst near3 lin\$3) or catalyst or "Pb" or ("Pt" or platinum))and (copper or (copper adj to adj copper) near2 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 19:56
L5	165	3 and (((("IC" or (integrat\$3 near2 circuit\$1)) or die\$1 or chip\$1) near10 cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 20:02
L6	136	((trench\$2 or channel\$1 or cavit\$2 or void\$1) near3 (substrate\$1 or wafer\$1)) same (bond\$3 or attach\$4 combin\$3)) and ((copper or (copper adj to adj copper)) near2 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 20:01
L7	12	6 and (((("IC" or (integrat\$3 near2 circuit\$1)) or die\$1 or chip\$1) near10 cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 20:02
S1	12695	((438/26) or (438/51) or (438/98) or (438/100) or (438/101) or (438/106) or (438/107) or (438/597) or (438/653) or (438/669) or (438/670) or (438/685) or (438/686) or (438/687) or (438/692)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 19:48
S2	8803	((trench\$2 or channel\$1 or cavit\$2 or void\$1) near3 (substrate\$1 or wafer\$1)) same (bond\$3 or attach\$4 combin\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:48

S3	304	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:05
S4	5147	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 ((catalyst near3 lin\$3) or catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:55
S5	0	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:15
S6	54	S2 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:18
S7	20	S6 and (fluid near2 (circulat\$3 or flow or control\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:41
S8	1	S7 and (copper near3 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:26
S9	34	S6 not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 17:41
S10	26	((trench\$2 or channel\$1 or cavit\$2 or void\$1) near3 (substrate\$1 or wafer\$1)) same (copper near3 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/26 18:21
S11	1	("20040072039").PN.	US-PGPUB; USPAT	OR	OFF	2005/06/26 18:21

S12	1265	(wafer\$1 or substrate\$!) near10 abutment	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 19:03
S13	0	S12 and ("copper to copper" adj bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 18:53
S14	0	S12 and ("copper to copper" near10 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 18:53
S15	0	S12 and ((copper adj to adj copper) near10 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:54
S16	26	S12 and (copper near5 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 18:54
S17	944	(wafer\$1 or substrate\$!) near5 abutment	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 19:04
S18	50	S17 same (trench\$2 or channel\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 19:11
S19	11	("4426129"   "4578097"   "4709986"   "4896930"   "4904052"   "5263111"   "5333229"   "5366530"   "5465860"   "5770465"   "6097870").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/07 19:09

S20	70	S12 same (trench\$2 or channel\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 19:11
S21	20	S20 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/07 19:11
S22	326	(438/667).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 19:53
S23	170	(438/411).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 18:14
S24	372	(438/406).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 19:58
S25	813	(((trench\$2 or channel\$1 or cavit\$2 or void\$1) near3 wafer\$1) near5 (bond\$3 or attach\$4 combin\$3 or abut\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/11 17:41
S26	1	S25 and ((trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:50
S27	1	("5262021").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/11 17:32
S28	1	S25 and ((trench\$2 or channel\$1) near10 catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/11 17:36

S29	32	S25 and catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/11 17:36
S30	781	S25 not S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/11 17:42
S31	5	("4977101"   "5145810"   "5296730"   "5320705"   "5326726").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/11 19:16
S32	25	("5719069").URPN.	USPAT	OR	OFF	2005/12/11 19:17
S33	3	("4624741"   "5264075"   "5310450").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/11 19:20
S34	2	("5425841").URPN.	USPAT	OR	OFF	2005/12/11 19:21
S35	4	("4706374"   "4930043"   "5006487"   "5068203").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/11 19:24
S36	9	("5369057").URPN.	USPAT	OR	OFF	2005/12/11 19:24
S37	1	("6861274").PN.	USPAT	OR	OFF	2006/01/09 13:28
S38	18	("20020158322"   "20030003619"   "20030038027"   "20030062149"   "20040101421"   "20040118689"   "6055003"   "6136212"   "6156651"   "6351274"   "6379870"   "6407006"   "6455130"   "6576896"   "6605454"   "6639712"   "6670022"   "6719535").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/09 13:28
S39	7	("5736424"   "5895263"   "5947027"   "6022812"   "6062133"   "6063714"   "6121130").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/09 13:50
S40	6	("6407006").URPN.	USPAT	OR	OFF	2006/01/09 14:47
S41	119518	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:41

S42	0	S41 and ((copper adj to adj copper) near10 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:54
S43	383	S41 and (copper near10 bond\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 19:50
S44	2	S43 and (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 ((catalyst near3 lin\$3) or catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:57
S45	5	S43 and (trench\$2 or channel\$1 or cavit\$2 or void\$1) near10 ((catalyst near3 lin\$3) or catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:39
S46	3	S45 not S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:57
S47	9	S43 and (trench\$2 or channel\$1 or cavit\$2 or void\$1) same ((catalyst near3 lin\$3) or catalyst)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 16:37
S48	6	S47 not S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 14:59
S49	10	("0465957"   "0568574"   "2084207"   "2120067"   "3419953"):PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/09 16:25
S50	0	("5839644").URPN.	USPAT	OR	OFF	2006/01/09 16:26

S51	14	((("6606251") or ("6285550") or ("6507492") or ("6861274") or ("6277629") or ("6234240") or ("5504924") or ("5763951") or ("6942018") or ("5420753") or ("5365400") or ("200401200827") or ("5361188") or ("4922377") or ("5844208")).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/09 16:39
S52	19	((("6606251") or ("6285550") or ("6507492") or ("6861274") or ("6277629") or ("6234240") or ("5504924") or ("5763951") or ("6942018") or ("5420753") or ("5365400") or ("200401200827") or ("5361188") or ("4922377") or ("5844208") or ("5754399") or ("6366462") or ("6548894") or ("6449161") or ("6661661")).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/09 17:32
S53	51	(integrat\$3 or connect\$3) near5 (re adj combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:35
S54	7	S53 and semiconductor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:33
S55	15	integrat\$3 near10 (re adj combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:37
S56	5	(re adj combin\$3) near10 ((electroosmotic or kinetic) near3 pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:40
S57	6	(re adj combin\$3) same ((electroosmotic or kinetic) near3 pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:42

S58	1	S57 not S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:40
S59	26	(re adj combin\$3) near10 (electroosmotic or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:44
S60	111	(re adj combin\$3) same (electroosmotic or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:53
S61	85	S60 not S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:49
S62	10	(re adj combiner) same (electroosmotic or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:55
S63	18	(re adj combiner) and (electroosmotic or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:55
S64	8	S63 not S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 17:55
S65	71318	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near10 ((catalyst near3 lin\$3) or catalyst or ("Pb" or lead) or ("Pt" or platinum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:10



S66	7610	S65 and (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:51
S67	5	S66 and (re adj combiner) same ((electroosmotic near3 pump\$1) or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:47
S68	6	S66 and (re adj combiner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:45
S69	1	S68 not S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:46
S70	15	S66 and ((electroosmotic near3 pump\$1) or pump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 14:51
S71	1937	S65 same (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 16:28
S72	8	S71 and (("IC" or (integrat\$3 near2 circuit\$1)) near5 cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:00
S73	8	S71 and (("IC" or (integrat\$3 near2 circuit\$1)) near10 cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:05

S74	0	S73 not S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:00
S75	752	S71 and (("IC" or (integrat\$3 near2 circuit\$1)) same cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:01
S76	27	S71 and (("IC" or (integrat\$3 near2 circuit\$1)) same cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:01
S77	19	S76 not S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:02
S78	23	S71 and (((("IC" or (integrat\$3 near2 circuit\$1)) or die\$1 or chip\$1) near10 cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 19:57
S79	60	S71 and (((("IC" or (integrat\$3 near2 circuit\$1)) or die\$1 or chip\$1) same cool\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:14
S80	37	S79 not S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 15:14
S81	12885	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near10 ((catalyst near3 lin\$3) or catalyst or "Pb" or ("Pt" or platinum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 19:55

S82	227	S81 same (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 16:38
S83	5167	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near10 ("Pb" or ("Pt" or platinum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:17
S84	109	S83 same (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:18
S85	17	("5580435").URPN.	USPAT	OR	OFF	2006/01/10 16:43
S86	11	("3051631"   "3932264"   "4061560"   "4459198"   "4891120"   "4908112"   "5126023"   "5194133"   "5223114"   "5296114").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 16:51
S87	2	S84 and catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:15
S88	2833	(trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 ("Pb" or ("Pt" or platinum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:17
S89	80	S88 same (trench\$2 or channel\$1 or cavit\$2 or void\$1) near5 (abutment or align\$4 or (face adj to adj face) or combin\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 17:51
S90	1650	(438/424).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 17:51

S91	154	(438/422).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 18:15
S92	147	S91 not S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 18:15
S93	9	("4579621"   "4993143"   "5659138"   "5883420"   "5889872"   "5926721"   "6093330"   "6180480"   "6307247").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 18:20
S94	1	("6670257").URPN.	USPAT	OR	OFF	2006/01/10 18:31
S95	16	("4450472"   "4745760"   "4800422"   "4938742"   "4950181"   "5179043"   "5218515"   "5241450"   "5278103"   "5461003"   "5619177"   "5668398"   "5876187"   "5901037"   "5936295"   "6228744").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 18:34
S96	16	("4450472"   "4745760"   "4800422"   "4938742"   "4950181"   "5179043"   "5218515"   "5241450"   "5278103"   "5461003"   "5619177"   "5668398"   "5876187"   "5901037"   "5936295"   "6228744").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 18:43
S97	2	("6629425").URPN.	USPAT	OR	OFF	2006/01/10 18:44